

Precalculus Enhanced with Graphing Utilities Student Edition

These authors understand what it takes to be successful in mathematics, the skills that students bring to this course, and the way that technology can be used to enhance learning without sacrificing math skills.

A textbook with an overall learning system involving preparation, practice, and review. This text gives students a model for success in mathematics.

Contract Price

\$91.97

Grade

10, 11, 12

TYPE

P1

Copyright

2009

Author

Sullivan, Sullivan

Edition

5th

Content

Precalculus

Readability

11.4 Dale-Chall

Accessibility

none

Research

Teacher Edition

0132356279	\$91.97
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Precalculus Enhanced with Graphing Utilities Instructor's Edition	
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Essential Items

Ancillary Items

0132391236	\$1,200.00
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Precalculus Enhanced with Graphing Utilities - MathXL 100-Pack	
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0132391228	\$300.00
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Precalculus Enhanced with Graphing Utilities - MathXL 25-Pack	
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0201726114	\$20.00
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Precalculus Enhanced with Graphing Utilities - MathXL Single-Student Access	
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0136039200	\$105.47
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Precalculus Enhanced with Graphing Utilities - Student Edition and MathXL CD	
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Free with Purchase items

0131358928	Precalculus: Enhanced with Graphing Utilities - PresentationEXPRESS	\$18.97
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Free upon request, 1 per Teacher User, with a minimum purchase of 25 Student Editions		
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0131358936	Precalculus: Enhanced with Graphing Utilities - ExamView	\$18.97
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Free upon request, 1 per Teacher User, with a minimum purchase of 25 Student Editions		
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0132356120	Precalculus: Enhanced with Graphing Utilities - Instructor's Solutions	\$18.97
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Free upon request, 1 per Teacher User, with a minimum purchase of 25 Student Editions		
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0132356228	Precalculus: Enhanced with Graphing Utilities - Student Solutions	\$18.97
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Free upon request, 1 per Teacher User, with a minimum purchase of 25 Student Editions		
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0132356252	Precalculus: Enhanced with Graphing Utilities - CD Lecture Series	\$25.97
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Free upon request, 1 per Teacher User, with a minimum purchase of 25 Student Editions		
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013135891X	Precalculus: Enhanced with Graphing Utilities - StudentEXPRESS CD-	\$23.97
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Evaluation Tool for Basal Instructional Materials
Mathematics (2009 – 2015)

Provided by the Publisher	ISBN 0131356941		Publisher - Pearson Education, Inc., publishing as Prentice Hall		Provided by the Publisher
	Precalculus Enhanced with Graphing Utilities Student Edition				
	Type - P1	Author - Sullivan, Sullivan			
	Copyright - 2009	Edition - 5th	Readability - 11.4 Dale-Chall		
	Course - Precalculus		Grade(s) - 10, 11, 12		
Teacher Edition ISBN if applicable0132356279					

Overall Recommendation: Overall Strengths, Weaknesses, Comments: <p>The content of this text is typical of traditional precalculus texts. However, this text is more original in the way it presents a relevant real world situation to begin each chapter and then concludes the chapter with a research project for students based on this same topic.</p>	Recommended as BASAL if this box is not checked, the evaluators have chosen NOT recommend as basal
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NIMAC Accessibility NONE
 Ancillary Yes
 Free with Purchase Yes
 Research No

These authors understand what it takes to be successful in mathematics, the skills that students bring to this course, and the way that technology can be used to enhance learning without sacrificing math skills.

CRITERIA

This basal resource ...

A. Encompasses KY Content Standards & Grade Level Expectations Strong Evidence	
Text is designed to be used in an elective course outside the Program of Studies	
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1) Includes the 5 Big Ideas of mathematics to the following extent:	
a) Number Properties and Operations	Strong Evidence
b) Measurement	Little or No Evidence
c) Geometry	Little or No Evidence
d) Data Analysis and Probability	Moderate Evidence
e) Algebraic Thinking	Strong Evidence
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2) Addresses content-specific enduring understandings from the related Program of Studies standards.	Strong Evidence
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3) Addresses content-specific skills and concepts from the related Program of Studies standards.	Strong Evidence
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4) Content addressed is current, relevant and non-trivial	Strong Evidence
5) Provides opportunities for critical thinking/reasoning	Strong Evidence
6) Strengths, Weaknesses, Comments: <ul style="list-style-type: none"> • Specific strengths-which areas/concepts are covered exceptionally well? • Specific weaknesses-which areas/concepts would likely require supplementing? <p>Click here to enter text.</p>	

B. Functionality & Suitability	Strong Evidence
1) Suitability	Strong Evidence
<ul style="list-style-type: none"> • Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind. 	
2) Content quality	Strong Evidence
<ul style="list-style-type: none"> • Free from factual errors • Content is presented conceptually when possible—more than a mere collection of facts • Content included accurately represents the knowledge base of the discipline • Theories/scientific models contained represent a broad consensus of the scientific community • Interconnections among mathematical topics 	
3) Connections to Literacy	Strong Evidence
<ul style="list-style-type: none"> • Employs a variety of reading levels and is grade/level appropriate • Use of multiple representations-concrete, visual/spatial, graphs, charts, etc. • Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles. • Student text provides opportunity to integrate reading and writing • Uses vocabulary that is age and content appropriate • Focuses on critical vocabulary vs. extensive lists • Identifies key vocabulary through definitions in both text and glossary • The text is engaging and facilitates learning • Embedded activities enhance the understanding of the text <p><i>Note: may apply to either student or teacher editions</i></p>	
4) Connections to Technology	Strong Evidence
<ul style="list-style-type: none"> • Integrates technology and reflects the impact of technological advances • Uses technology in the collection and/or manipulation of authentic data • Embeds web links as a mathematics resource. 	
5) Support for Diverse Learners	Little or No Evidence
<ul style="list-style-type: none"> • Provides support for ESL students • Provides support for differentiation of instruction in diverse classrooms • Challenge for gifted and talented students 	

- Support for students with learning difficulties
Note: may apply to either student or teacher editions

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Excellent job of incorporating vocabulary practice and integrating writing into the curriculum.

C. Supports Inquiry and Skill Development	Strong Evidence
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1) Promotes Inquiry, research and Application of Learning

Strong Evidence

- Provides opportunities for inquiry and research that includes activities such as gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions, formulating authentic questions to deepen and extend mathematical reasoning.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, generalizing, justifying, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, number lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.

Note: may apply to either teacher or student edition

2) Skill Development

Strong Evidence

- Provides opportunities to make sense of all mathematics
- Provides opportunities to recognize, create, and extend patterns.
- Provides opportunities for critical thinking and reasoning.
- Provides opportunities to justify/prove responses.
- Provides opportunities to ask deeper questions.
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

Each chapter contains a project in which students research and apply skills and content from the chapter to solve a relevant real world problem.

D. Supports Best Practices of Teaching and Learning	Strong Evidence
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1) Engages Students

Strong Evidence

- Includes content geared to the needs, interests, and abilities of all students
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Evaluation Tool for Basal Instructional Materials
Mathematics (2009 – 2015)

- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated

Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction

Moderate Evidence

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels

Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

There is no distinction between the teacher text and the student text.

E. Has an Organization/ Format that Supports Learning and Teaching

Strong Evidence

1) Organizational Quality

Strong Evidence

- Print and/or electronic materials present minimal barriers to learners, but also add encouragement for students to stretch and make further explorations.
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components, interactive software, calculators, physical and virtual manipulatives) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size
- Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text)

Little or No Evidence

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual

evaluation standards.

No essential components provided.

F. Has available Ancillary/ Gratis Materials

Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

Moderate Evidence

1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving
- Provides opportunities for intervention.

2) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Solution manual and assessment CD with the text are the only ancillary materials.
